

*What type of correlation does the Scatter Graph have?*

*Postive*

**————— 15/03/2013 09:36:12 ————————————————————**

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**Results for: PRACTICAL FIVE(1).MTW**

**Scatterplot of Number of Cars Sold (y) vs Number of TV Ads (x)**

**Sum of Number of TV Ads (x)**

Sum of Number of TV Ads (x) = 145

**Sum of Number of Cars Sold (y)**

Sum of Number of Cars Sold (y) = 212

**Sum of Xy**

Sum of Xy = 3764

**Sum of x"2**

Sum of x"2 = 2785

|  |  |
| --- | --- |
| **b =**  1.01099 | **a =**6.54066 |
| 1. Write the Line of Regression,   **15 = 1.01 + 6.54 \* 8** |  |

**Data Display**

Number

of

Number Cars

of TV Sold

Row Ads (x) (y) Xy x"2 B1 A1

1 6 15 90 36 1.01099 6.54066

2 20 31 620 400

3 0 10 0 0

4 14 16 224 196

5 25 28 700 625

6 16 20 320 256

7 28 40 1120 784

8 18 25 450 324

9 10 12 120 100

10 8 15 120 64



Part (ii)



*What type of correlation does the Scatter Graph have?*

*Postive*

**Scatterplot of Temperature (in Celsius) vs No. of Customers Eating**

**Data Display**

No. of

Customers

Temperature Eating

Row (in Celsius) Outside Xy(2) x^2

1 28.0 45 1260.0 784.00

2 16.0 15 240.0 256.00

3 11.0 3 33.0 121.00

4 25.0 42 1050.0 625.00

5 29.0 49 1421.0 841.00

6 26.5 41 1086.5 702.25

7 18.0 26 468.0 324.00

8 22.0 33 726.0 484.00

9 21.0 31 651.0 441.00

10 26.5 37 980.5 702.25

11 35.0 49 1715.0 1225.00

12 26.0 36 936.0 676.00

13 20.0 29 580.0 400.00

14 19.0 19 361.0 361.00

**Sum of Temperature (in Celsius)**

Sum of Temperature (in Celsius) = 323

**Sum of No. of Customers Eating Outside**

Sum of No. of Customers Eating Outside = 455

**Sum of Xy(2)**

Sum of Xy(2) = 11508

**Sum of x^2**

Sum of x^2 = 7942.5

|  |  |  |
| --- | --- | --- |
| 323 | 455 |  |
| 11507 | 7942.5 | *n =* |